



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003  
TIME: 14:56:34

Input Set : A:\41082112.app  
Output Set: N:\CRF4\05132003\I964662.raw

3 <110> APPLICANT: PROTEIN SPECIALTIES LTD.  
4 HSC RESEARCH AND DEVELOPMENT LIMITED PARTNERSHIP  
6 <120> TITLE OF INVENTION: SELF-ALIGNING PEPTIDES MODELED ON HUMAN ELASTIN AND  
7 OTHER FIBROUS PROTEINS  
9 <130> FILE REFERENCE: 041082/0112  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/964,662  
C--> 12 <141> CURRENT FILING DATE: 2003-05-08  
14 <150> PRIOR APPLICATION NUMBER: 09/340,736  
15 <151> PRIOR FILING DATE: 1999-06-29  
17 <160> NUMBER OF SEQ ID NOS: 11  
19 <170> SOFTWARE: PatentIn Ver. 2.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 731  
23 <212> TYPE: PRT  
24 <213> ORGANISM: Homo sapiens  
26 <400> SEQUENCE: 1  
27 Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe  
28 1 5 10 15  
30 Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Ala Leu Gly Pro  
31 20 25 30  
33 Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly  
34 35 40 45  
36 Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala  
37 50 55 60  
39 Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala  
40 65 70 75 80  
42 Lys Ala Gly Ala Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly  
43 85 90 95  
45 Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro  
46 100 105 110  
48 Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val  
49 115 120 125  
51 Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro  
52 130 135 140  
54 Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe  
55 145 150 155 160  
57 Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val  
58 165 170 175  
60 Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly  
61 180 185 190  
63 Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly  
64 195 200 205  
66 Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003

TIME: 14:56:34

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

67	210	215	220
69	Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe		
70	225	230	235
72	Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val		240
73	245	250	255
75	Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val		
76	260	265	270
78	Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala		
79	275	280	285
81	Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly		
82	290	295	300
84	Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val		
85	305	310	315
87	320	325	330
88	Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala		335
90	Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala		
91	340	345	350
93	Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile		
94	355	360	365
96	Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly		
97	370	375	380
99	Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Gly Val Gly Gly Val		
100	385	390	395
			400
102	Pro Gly Val Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln		
103	405	410	415
105	Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala		
106	420	425	430
108	Ala Ala Ala Ala Lys Ala Ala Lys Ala Ala Gln Phe Gly Leu Val		
109	435	440	445
111	Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly		
112	450	455	460
114	Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly		
115	465	470	475
			480
117	Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Ala Ile Gly Pro Gly		
118	485	490	495
120	Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala		
121	500	505	510
123	Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly		
124	515	520	525
126	Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly		
127	530	535	540
129	Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu		
130	545	550	555
			560
132	Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser		
133	565	570	575
135	Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly		
136	580	585	590
138	Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly		
139	595	600	605

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003  
TIME: 14:56:34

Input Set : A:\41082112.app  
Output Set: N:\CRF4\05132003\I964662.raw

141 Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly  
142 610 615 620  
144 Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala  
145 625 630 635 640  
147 Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly  
148 645 650 655  
150 Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly  
151 660 665 670  
153 Ile Pro Pro Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly  
154 675 680 685  
156 Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val  
157 690 695 700  
159 Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala  
160 705 710 715 720  
162 Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys  
163 725 730  
166 <210> SEQ ID NO: 2  
167 <211> LENGTH: 200  
168 <212> TYPE: PRT  
169 <213> ORGANISM: Artificial Sequence  
171 <220> FEATURE:  
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
173 polypeptide  
175 <400> SEQUENCE: 2  
176 Phe Pro Gly Phe Gly Val Gly Val Gly Ile Pro Gly Val Ala Gly  
177 1 5 10 15  
179 Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val  
180 20 25 30  
182 Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys  
183 35 40 45  
185 Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys  
186 50 55 60  
188 Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val  
189 65 70 75 80  
191 Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro  
192 85 90 95  
194 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val  
195 100 105 110  
197 Ala Pro Ala Ile Gly Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala  
198 115 120 125  
200 Ala Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala  
201 130 135 140  
203 Ala Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro  
204 145 150 155 160  
206 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu  
207 165 170 175  
209 Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val  
210 180 185 190  
212 Gly Val Ala Pro Ala Ile Gly Pro

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003  
TIME: 14:56:34

Input Set : A:\41082112.app  
Output Set: N:\CRF4\05132003\I964662.raw

213        195                  200  
216 <210> SEQ ID NO: 3  
217 <211> LENGTH: 4  
218 <212> TYPE: PRT  
219 <213> ORGANISM: Artificial Sequence  
221 <220> FEATURE:  
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
223        polypeptide  
225 <400> SEQUENCE: 3  
226 Lys Ala Ala Lys  
227        1  
230 <210> SEQ ID NO: 4  
231 <211> LENGTH: 5  
232 <212> TYPE: PRT  
233 <213> ORGANISM: Artificial Sequence  
235 <220> FEATURE:  
236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
237        polypeptide  
239 <400> SEQUENCE: 4  
240 Lys Ala Ala Ala Lys  
241        1                    5  
244 <210> SEQ ID NO: 5  
245 <211> LENGTH: 6  
246 <212> TYPE: PRT  
247 <213> ORGANISM: Artificial Sequence  
249 <220> FEATURE:  
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
251        polypeptide  
253 <400> SEQUENCE: 5  
254 Pro Gly Val Gly Val Ala  
255        1                    5  
258 <210> SEQ ID NO: 6  
259 <211> LENGTH: 5  
260 <212> TYPE: PRT  
261 <213> ORGANISM: Artificial Sequence  
263 <220> FEATURE:  
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
265        polypeptide  
267 <400> SEQUENCE: 6  
268 Val Pro Gly Val Gly  
269        1                    5  
272 <210> SEQ ID NO: 7  
273 <211> LENGTH: 4  
274 <212> TYPE: PRT  
275 <213> ORGANISM: Artificial Sequence  
277 <220> FEATURE:  
278 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
279        polypeptide  
281 <400> SEQUENCE: 7

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003  
TIME: 14:56:34

Input Set : A:\41082112.app  
Output Set: N:\CRF4\05132003\I964662.raw

282 Val Pro Gly Gly  
283 1  
286 <210> SEQ ID NO: 8  
287 <211> LENGTH: 30  
288 <212> TYPE: PRT  
289 <213> ORGANISM: Artificial Sequence  
291 <220> FEATURE:  
292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
293 polypeptide  
295 <400> SEQUENCE: 8  
296 Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly  
297 1 5 10 15  
299 Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr  
300 20 25 30  
303 <210> SEQ ID NO: 9  
304 <211> LENGTH: 117  
305 <212> TYPE: PRT  
306 <213> ORGANISM: Homo sapiens  
308 <400> SEQUENCE: 9  
309 Pro Gly Phe Gly Val Gly Val Gly Ile Pro Gly Val Ala Gly Val  
310 1 5 10 15  
312 Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly  
313 20 25 30  
315 Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys Tyr  
316 35 40 45  
318 Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala  
319 50 55 60  
321 Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly  
322 65 70 75 80  
324 Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly  
325 85 90 95  
327 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala  
328 100 105 110  
330 Pro Ala Ile Gly Pro  
331 115  
334 <210> SEQ ID NO: 10  
335 <211> LENGTH: 118  
336 <212> TYPE: PRT  
337 <213> ORGANISM: Homo sapiens  
339 <400> SEQUENCE: 10  
340 Phe Pro Gly Phe Gly Val Gly Val Gly Ile Pro Gly Val Ala Gly  
341 1 5 10 15  
343 Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val  
344 20 25 30  
346 Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys  
347 35 40 45  
349 Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys  
350 50 55 60  
352 Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003

TIME: 14:56:35

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date